

| | Type | Hits | Search Text | DBs |
|----|------|--------|--|------------------------------------|
| 1 | BRS | 221349 | (printed near circuit near board) or PCB | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 2 | BRS | 454320 | (light near emit\$6 near diod\$3) or "LED" | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 3 | BRS | 1648 | (heat near sink) with protr\$6 | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 4 | BRS | 36 | ((printed near circuit near board) or PCB) and ((light near emit\$6 near diod\$3) or "LED") and ((heat near sink) with protr\$6) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 5 | BRS | 13 | ((printed near circuit near board) or PCB) with (holes or apertures)) with (heat near conductor) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 6 | BRS | 1 | 926729.URPN. | USPAT |
| 7 | BRS | 1648 | (heat near sink) with protr\$6 | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 8 | BRS | 63 | (heat near sink) with (protru\$6 with (basin or cavity)) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 9 | BRS | 200929 | "19" and ((light near emit\$6 near diod\$3) or "LED") | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 10 | BRS | 10 | ((heat near sink) with (protru\$6 with (basin or cavity))) and ((light near emit\$6 near diod\$3) or "LED") | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 11 | BRS | 9503 | 257/701,702,706,707,711-713,717,719,722,723.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 12 | BRS | 295 | 257/701,702,706,707,711-713,717,719,722,723.ccls. and ((heat near sink) with protr\$6) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 13 | BRS | 20 | 257/701,702,706,707,711-713,717,719,722,723.ccls. and ((heat near sink) with (protru\$6 with (basin or cavity))) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 14 | BRS | 30989 | ((printed near circuit near board) or PCB) with (holes or apertures)) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 15 | BRS | 30 | 257/701,702,706,707,711-713,717,719,722,723.ccls. and ((heat near sink) with protr\$6) and (((printed near circuit near board) or PCB) with (holes or apertures))) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 16 | BRS | 13 | ((printed near circuit near board) or PCB) with ((holes or apertures) with (heat near conductor\$3)) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 17 | BRS | 4108 | 362/800,543-547,227,236,240,373.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 18 | BRS | 1560 | 313/499,500,512,498.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 19 | BRS | 1302 | (heat near sink) and ((printed near circuit near board) or PCB) and ((light near emit\$6 near diod\$3) or "LED") | USPAT; US-PGPUB; EPO; JPO; DERWENT |

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| 20 | BRS | 15053 | 257/701,702,706,707,711-713,717,719,722,723.ccls. or 362/800,543-547,227,236,240,373.ccls. or 313/499,500,512,498.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 21 | BRS | 172 | ((heat near sink) and ((printed near circuit near board) or PCB) and ((light near emit\$6 near diod\$3) or "LED")) and (257/701,702,706,707,711-713,717,719,722,723.ccls. or 362/800,543-547,227,236,240,373.ccls. or 313/499,500,512,498.ccls.) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 22 | BRS | 102 | (heat near sink) same (protru\$6 with (basin or cavity)) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 23 | BRS | 454320 | (light near emit\$6 near diod\$3) or "LED" | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 24 | BRS | 2 | (heat near sink) same (protru\$6 same (basin or cavity) same ((light near emit\$6 near diod\$3) or "LED")) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 25 | BRS | 22 | (heat near sink) same (protru\$6 and (basin or cavity) and ((light near emit\$6 near diod\$3) or "LED")) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 26 | BRS | 5866 | ((light near emit\$6 near diod\$3) or "LED") near chip | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 27 | BRS | 118 | ((light near emit\$6 near diod\$3) or "LED") near chip) with (basin or cavity) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 28 | BRS | 26 | ((light near emit\$6 near diod\$3) or "LED") near chip) with (basin or cavity) and (heat near sink) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 29 | BRS | 141 | (heat near sink) same (protru\$6 or rais\$5) with (basin or cavity) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 30 | BRS | 25 | ((heat near sink) same (protru\$6 or rais\$5) with (basin or cavity)) and ((light near emit\$6 near diod\$3) or "LED") | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 31 | BRS | 6238 | ((light near emit\$6 near diod\$3) or "LED") and (heat near sink) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 32 | BRS | 221349 | (printed near circuit near board) or PCB | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 33 | BRS | 42582 | ((printed near circuit near board) or PCB) same (hole or aperture) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 34 | BRS | 1302 | ((light near emit\$6 near diod\$3) or "LED") and (heat near sink)) and ((printed near circuit near board) or PCB) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 35 | BRS | 380 | ((light near emit\$6 near diod\$3) or "LED") and (heat near sink)) and ((printed near circuit near board) or PCB) and (362/\$.ccls. or 361/\$.ccls. or 174/\$.ccls. or 252.ccls.) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 36 | IS&R | 1 | ("6706972").PN. | USPAT |

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|----|------|--------|---|------------------------------------|
| 37 | BRS | 9 | ("4396936" "5014904" "5172301" "5646826" "5661902" "5790379" "6115255" "6156980" "6349033").PN. | USPAT |
| 38 | BRS | 9 | ("4396936" "5014904" "5172301" "5646826" "5661902" "5790379" "6115255" "6156980" "6349033").PN. | USPAT |
| 39 | BRS | 13 | ("4141030" "4340902" "4396935" "4471837" "4563725" "4587550" "4729061" "4803546" "4849857" "4890194" "4941067" "4996629" "5012386").PN. | USPAT |
| 40 | BRS | 44 | 5172301.URPN. | USPAT |
| 41 | BRS | 0 | 6706972.URPN. | USPAT |
| 42 | BRS | 0 | 6706972.URPN. | USPAT |
| 43 | BRS | 307 | 257/701,702,706,707,711-713,717,719,720,722,723.ccls. and ((heat near sink) with (protru\$6)) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 44 | BRS | 97 | 361/719,720,760.ccls. and ((heat near sink) with (protru\$6)) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 45 | BRS | 10 | 174/252,260.ccls. and ((heat near sink) with (protru\$6)) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 46 | BRS | 356 | (257/701,702,706,707,711-713,717,719,720,722,723.ccls. and ((heat near sink) with (protru\$6))) or (361/719,720,760.ccls. and ((heat near sink) with (protru\$6))) or (174/252,260.ccls. and ((heat near sink) with (protru\$6))) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 47 | BRS | 23 | ((257/701,702,706,707,711-713,717,719,720,722,723.ccls. and ((heat near sink) with (protru\$6))) or (361/719,720,760.ccls. and ((heat near sink) with (protru\$6))) or (174/252,260.ccls. and ((heat near sink) with (protru\$6)))) and ((light near emit\$6 near diod\$3) or "LED") | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 48 | BRS | 1327 | 362/296.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 49 | BRS | 76 | 362/296.ccls. and ((light near emit\$6 near diod\$3) or "LED") | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 50 | BRS | 57 | 313/498,500,512.ccls. and (heat near sink) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 51 | BRS | 454617 | (light near emit\$6 near diod\$3) or "LED" | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 52 | BRS | 4 | ((light near emit\$6 near diod\$3) or "LED") same ((heat near sink) with (chip with (cavity or basin or dish))) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 53 | BRS | 48 | ((light near emit\$6 near diod\$3) or "LED") with (chip with (cavity or basin or dish))) and (heat near sink) | USPAT; US-PGPUB; EPO; JPO; DERWENT |

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| 54 | BRS | 220 | ((light near emit\$6 near diod\$3) or "LED") with (chip with (cavity or basin or dish)) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 55 | BRS | 172 | ((((light near emit\$6 near diod\$3) or "LED") with (chip with (cavity or basin or dish))) not (((light near emit\$6 near diod\$3) or "LED") with (chip with (cavity or basin or dish)))) and (heat near sink)) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 56 | IS&R | 1 | ("6507049").PN. | USPAT |
| 57 | BRS | 6 | ("4178274" "4336367" "4454201" "5101264" "5145889" "5198479").PN. | USPAT |
| 58 | BRS | 2 | 6507049.URPN. | USPAT |